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Abstract

For example in case of an OFDM multicarrier transmission system the transmission characteristics of subcarriers of a multicarrier transmission system using a plurality of antenna elements (3, 3') can be adjusted. Particularly the power and the phase of the subcarriers can be adapted. To this object the subcarrier frequency channel (2, 2') characteristics of the multicarrier transmission are detected (11, 11') at the side of the transmitter (3). The power of each subcarrier is then distributed by a weighting unit (14, 14'). The subcarriers can be further pre-equalized (1, 1') by dividing the subcarrier signal respectively by the sum of the squared magnitude of the frequency channel characteristics of all subcarrier signals or a frequency characteristic of the selected antenna element (3, 3').

(Figure 5)